# PROPOSED ELECTRICAL HANDHOLE AND MANHOLE NOTES

THE CONTRACTOR WILL FURNISH AND INSTALL THE VARIOUS MANHOLES AND HANDHOLES AT THE LOCATIONS AND IN ACCORDANCE WITH THE DETAILS AS SHOWN ON THESE CONSTRUCTION PLANS.

PROPOSED MANHOLES NO. 1 AND 4 WILL BE FURNISHED WITH A HEAVY DUTY FRAME AND LID CAPABLE OF WITHSTANDING A MINIMUM 50,000 POUND LOAD, NEENAH FOUNDRY COMPANY R-1640-C OR AN APPROVED EQUAL.

PROPOSED MANHOLES NO. 1 AND 4 WILL BE PAID FOR UNDER ITEM:

AR110710 ELECTRICAL MANHOLE - - PER EACH.

PROPOSED MANHOLES 2, 3, 5, AND 6 WILL BE FURNISHED WITH AN EXTRA HEABY DUTY FRAME AND LID CAPABLE OF WITHSTANDING A MINIMUM 100,000 POUND LOAD, NEENAH FOUNDRY COMPANY R-3492-A OR AN APPROVED EQUAL.

PROPOSED MANHOLES 2, 3, 5, AND 6 WILL BE PAID FOR UNDER ITEM:

AR11715 ELECTRICAL MANHOLE - SPECIAL - - PER EACH.

PROPOSED HANDHOLES 1 AND 2 WILL BE FURNISHED WITH AN EXTRA HEAVY DUTY SQUARE SLAB TYPE MANHOLE FRAME AND HINGED SOLID LID CAPABLE OF WITHSTANDING A MINIMUM 100,000 POUND LOAD, NEENAH R-2498-P1S OR AN APPROVED EQUAL.

PROPOSED HANDHOLES 1 AND 2 WILL BE PAID FOR UNDER ITEM:

AR110610 ELECTRICAL HANDHOLE - - PER EACH.

# PROPOSED 2-WAY AND 4-WAY CONCRETE ENCASED DUCT NOTES

ONCE THE CONTRACTOR HAS THE TEMPORARY JUMPER CABLES IN PLACE AND HAS REMOVED THE EXISTING 6-WAY CONCRETE ENCASED ELECTRICAL DUCT FROM EXISTING HIGH VOLTAGE MANHOLE NO. 1 TO EXISTING HIGH VOLTAGE MANHOLE NO. 2, HE WILL INSTALL THE PROPOSED 6-WAY CONCRETE ENCASED ELECTRICAL DUCTS (BOTH HIGH AND LOW VOLTAGES). THESE ELECTRICAL DUCTS WILL BE INSTALLED AT A MINIMUM DEPTH OF 36" BELOW THE EXISTING SURFACE GRADE.

THEY WILL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAILS AS SHOWN ON THESE CONSTRUCTION PLANS.

WHILE INSTALLING THE PROPOSED 6-WAY CONCRETE ENCASED DUCTS NEAR EXISTING LOW VOLTAGE HANDHOLE NO. 1 HE WILL USE EXTREME CARE NOT TO DAMAGE THE EXISTING ELECTRICAL DUCT THAT RUNS BETWEEN EXISTING LOW VOLTAGE HANDHOLES 1 AND 2. ANY DAMAGE TO THE DUCT OR CABLES THAT ARE IN THIS DUCT WILL BE

THE PROPOSED 6-WAY CONCRETE ENCASED DUCTS THAT WILL BE INSTALLED ACROSS THE EXISTING AIRCRAFT PARKING APRON WILL BE CONSTRUCTED IN TWO SECTIONS. THIS WILL ALLOW AIRCRAFT TO USE THE AREA OF THE APRON THAT IS NOT UNDER

ONCE BOTH LOW AND HIGH VOLTAGE 6-WAY CONCRETE ENCASED ELECTRICAL DUCTS HAVE BEEN CONSTRUCTED THE CONTRACTOR WILL BACKFILL AND INSTALL THE PROPOSED RUNWAY AND TAXIWAY LIGHTING CIRCUITS FROM THE EXISTING ELECTRICAL VAULT TO THE VARIOUS LIGHTS, GUIDANCE SIGNS, SPLICE CANS, ELECTRICAL MANHOLES AND HANDHOLES AS SHOWN ON THESE CONSTRUCTION PLANS.

ONCE ALL RUNWAY AND TAXIWAY LIGHTING CIRCUITS ARE FUNCTIONING ON THEIR NEW HOMERUN CABLES, THE CONTRACTOR WILL BE ALLOWED TO REMOVE THE LAST SECTION OF HIGH VOLTAGE 6-WAY CONCRETE ENCASED DUCT AND ELECTRICAL MANHOLE AND THEN INSTALL THE PROPOSED 2-WAY CONCRETE ENCASED DUCT FROM PROPOSED MANHOLE NO. 5 TO PROPOSED HANDHOLE NO. 1.

THE PROPOSED CONCRETE ENCASED DUCTS WILL BE PAID FOR UNDER ITEM:

AR110502 2-WAY CONCRETE ENCASED DUCT - - PER L.F. AR110506 6-WAY CONCRETE ENCASED DUCT - - PER L.F.

## PROPOSED DIRECTIONAL BORE NOTES

THE CONTRACTOR WILL DIRECTIONAL BORE TWO CONDUITS UNDER TAXIWAY "C" AS SHOWN ON THESE CONSTRUCTION PLANS. THESE DUCTS WILL BE DIRECTIONAL BORED AT A MINIMUM DEPTH OF 12" BELOW THE BOTTOM OF THE TAXIWAY PAVEMENT BEING

THE PROPOSED DIRECTIONAL BORE WILL BE PAID FOR UNDER ITEM: AR110014 DIRECTIONAL BORE - - PER L.F.

## PROPOSED DIRECT BURY NOTES

THE CONTRACTOR WILL INSTALL SIX 4" RIGID GALVANIZED STEEL DUCTS FROM PROPOSED ELECTRICAL HANHOLE NO. 1 TO EXISTING ELECTRICAL HANDOLE NO. 3. THIS WILL PROVIDE AN ACCESS TO THE TERMINAL BUILDING FOR ANY FUTURE LOW VOLTAGE/CONTROL CABLES.

THE CONTRACTOR WILL INSTALL A 4" PVC DUCT FROM PROPOSED MANHOLE NO. 3 TO PROPOSED HANDHOLE NO. 2. THIS CONDUIT WILL BE PLACED AT A MINIMUM DEPTH OF

THE PROPOSED DIRECT BURY DUCTS WILL BE PAID FOR UNDER ITEM:

AR110204 4" PVC DUCT DIRECT BURY - - PER L.F. AR110214 4" STEEL DUCT DIRECT BURY - - PER L.F.

# PROPOSED DUCT INTERFACE TO EXISTING MANHOLES NOTES

THE CONTRACTOR WILL FURNISH AND INSTALL SIX 4" RIGID GALVANIZED STEEL DUCTS BETWEEN EXISTING LOW VOLTAGE MANHOLE NO. 1 AND THE END OF THE PROPOSED LOW VOLTAGE 6-WAY CONCRETE ENCASED DUCT. HE WILL ALSO FURNISH AND INSTALL SIX 4" RIGID GALVANIZED STEEL DUCTS FROM EXISTING HIGH VOLTAGE MANHOLE NO. 1 AND THE END OF THE PROPOSED HIGH VOLTAGE 6-WAY CONCRETE ENCASED DUCT. THE 4" RIGID GALVANIZED STEEL DUCTS WILL BE LONG SWEEPING BENDS THAT THE CONTRACTOR WILL INSTALL BETWEEN THE MANHOLES AND THE ENDS OF THE 6-WAY DUCTS. THE CONTRACTOR WILL REMOVE A PORTION OF THE LONG SWEEPING BENDS THAT CONFLICTS WITH THE INSTALLATION BETWEEN THE MANHOLES AND THE 6-WAY DUCTS. THE CONTRACTOR WILL BE PAID FOR THE ACTUAL LENGTH OF RIGID GALVANIZED STEEL DUCT INSTALLED.

THE PROPOSED DUCT INFERFACE TO EXISTING MANHOLES WILL BE PAID FOR UNDER ITEM:

AR800439 DUCT INTERFACE TO EXISTING MANHOLES - - PER L.S.

## PROPOSED RUNWAY AND TAXIWAY HOMERUN CABLING NOTES

THE CONTRACTOR WILL FURNISH AND INSTALL 1/C #8, 5KV, UG CABLE FROM THE EXISTING ELECTRICAL VAULT TO PROPOSED MANHOLE NO. 3. FOR EACH OF THE TWO RUNWAY AND THE EIGHT TAXIWAY LIGHTING CIRCUITS. THESE PROPOSED CABLES WILL NOT BE IN A UNIT DUCT. THESE CABLES WILL START AT THEIR INDIVIDUAL CUTOUTS IN THE VAULT, RUN THROUGH EXISTING AND PROPOSED DUCTING AND TERMINATE IN PROPOSED MANHOLE NO. 3. IN THE MANHOLE THEY WILL BE SPLICED TO 1/C #8, 5KV, UG CABLE IN UNIT DUCT.

THIS CABLE IN UNIT DUCT WILL BE RUN FROM THE PROPOSED MANHOLE NO. 3 TO THE VARIOUS LOCATIONS WHERE THEY WILL BE SPLICED TO THEIR RESPECTIVE EXISTING HOMERUN CABLES AS SHOWN ON THESE CONSTRUCTION PLANS.

RUNWAY 6/24, TAXIWAY 3A AND TAXIWAY 7 HOMERUN CABLES RUN IN A 4" PVC CONDUIT FROM PROPOSED MANHOLE NO. 3 TO PROPOSED HANDHOLE NO. 2. THESE CABLES WILL NOT BE IN UNIT DUCT.

THE PROPOSED CABLES WILL BE PAID FOR UNDER ITEM:

AR10108 1/C #8 5KV UG CABLE - - PER L.F. AR10158 1/C #8 5KV UG CABLE IN UD - - PER L.F. CO053

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REPLACE ELCTRICAL DUCT IN FRONTAL AREA ELECTRICAL MANHOLE HANDHOLE, DUCT, AND CABLING NOTES